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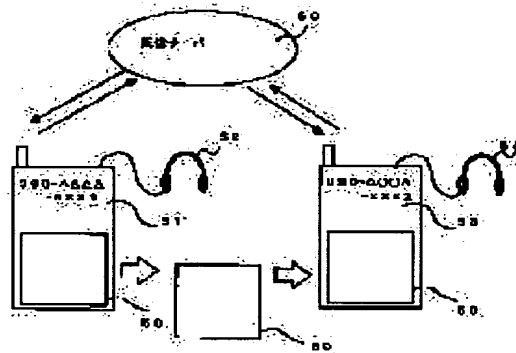
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(54) INFORMATION DISTRIBUTION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To transfer the distributed data to a 3rd party in an information distribution system after protecting a right of a distribution source.

SOLUTION: A mobile phone 61 receives distribution of data to be transferred from a distribution server 60 provided with a transfer management database relating to a transfer right and records a specific ID relating to a telephone number of the mobile phone 51, encryption contents decoded by the specific ID, encrypted music data decoded by the decoded contents key and a transfer distribution code having a transfer right, to a memory card 50. The distribution server records occurrence of transfer to the transfer management database. In the case of transferring the memory card 50 to a mobile phone 53, the mobile phone 53 accesses the distribution server 60 to overwrite the specific ID, the encrypted contents and a transfer distribution code without the right of transfer, thereby changing a possessor. The distribution server 60 updates the transfer management database 62 and then the transfer is established.



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CLAIMS

[Claim(s)]

[Claim 1] A means to generate the encryption contents key which can be decoded by Proper ID, The encryption data which can be decoded by the contents key which decoded said generated encryption contents key and said encryption contents key, And the distribution server equipped with a distribution means to distribute the transfer distribution code which shows the existence of transfer at least in order to manage distribution, Said proper ID, said encryption contents key, said encryption data, and the record medium that records a transfer distribution code, A record means to record said proper ID, said encryption contents key, said encryption data, and said transfer distribution code on said record medium, Said proper ID and the 1st decode means which decodes said contents key from said encryption contents key, Said contents key and the 2nd decode means which decodes data from said encryption data, It is an information distribution system equipped with the means of communications which communicates through said distribution server and base transceiver station, and the 1st and 2nd portable telephones which equip a body with wearing or the insertion-and-detachment means which can carry out desorption for said record medium. In said 1st portable telephone Said record medium which recorded the encryption data and the 1st transfer distribution code which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with the 1st portable telephone received from said distribution server is removed from said 1st portable telephone. When it equips with said 2nd portable telephone and said 1st transfer distribution code shows those with transfer, said 2nd portable telephone Said distribution server is accessed and it can decode with the 2nd portable telephone. The information distribution system characterized by receiving said distribution server, changing the decoded contents key and the 2nd encryption contents key which can decode data from said encryption data into said 1st encryption contents key, and recording said 2nd encryption contents key on said record medium.

[Claim 2] A means to generate the encryption contents key which can be decoded by Proper ID, The encryption data which can be decoded by the contents key which decoded said generated encryption contents key and said encryption contents key, And the distribution server equipped with a distribution means to distribute the transfer distribution code which shows the existence of transfer at least in order to manage distribution, Said proper ID, said encryption contents key, said encryption data, and the record medium that records a transfer distribution code, A record means to record said proper ID, said encryption contents key, said encryption data, and said transfer distribution code on said record medium, Said proper ID and the 1st decode means which decodes said contents key from said encryption contents key, Said contents key and the 2nd decode means which decodes data from said encryption data, It is an information distribution system equipped with the 1st and 2nd portable telephones equipped with the means of communications which communicates through said distribution server and base transceiver station. The encryption data which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with said 1st portable telephone, and a transfer distribution code are recorded on the record medium with which said 1st portable telephone was equipped. it was recorded on said 1st record medium --

at least said encryption data and said transfer distribution code When it reproduces to the record medium with which said 2nd portable telephone was equipped and the reproduced transfer distribution code shows those with transfer to it, Said 2nd portable telephone accesses said distribution server, and can be decoded with said 2nd portable telephone. And the information distribution system characterized by what is recorded on the record medium with which received the decoded contents key and the 2nd encryption contents key which can decode data from said encryption data from said distribution server, changed into said 1st contents key, and the 2nd portable telephone was equipped.

[Claim 3] A means to generate the encryption contents key which can be decoded by Proper ID, The encryption data which can be decoded by the contents key which decoded said generated encryption contents key and said encryption contents key, And the distribution server equipped with a distribution means to distribute the transfer distribution code which shows the existence of transfer at least in order to manage distribution, Said proper ID, said encryption contents key, said encryption data, and the 1st and 2nd record media that record a transfer distribution code, A record means to record said proper ID, said encryption contents key, said encryption data, and said transfer distribution code on said record medium, Said proper ID and the 1st decode means which decodes said contents key from said encryption contents key, Said contents key and the 2nd decode means which decodes data from said encryption data, It is an information distribution system equipped with the means of communications which communicates through said distribution server and base transceiver station, and the 1st and 2nd portable telephones which equip a body with wearing or the insertion-and-detachment means which can carry out desorption for said record medium. Said 1st record medium which recorded the encryption data and the 1st transfer distribution code which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with said 1st portable telephone When it equips with said insertion-and-detachment means of said 2nd portable telephone, or from said 2nd record medium which recorded the encryption data and the 1st transfer distribution code which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with said 1st portable telephone [when said encryption data and said 1st transfer distribution code are reproduced at least to said 1st record medium with which said 2nd portable telephone was equipped] said 2nd portable telephone It communicates with said distribution server and can decode with the 2nd portable telephone. The information distribution system characterized by receiving the decoded contents key and the 2nd encryption contents key which can decode data from said encryption data, changing said 2nd received encryption contents key into said 1st contents key, and recording it on the 2nd record medium.

[Claim 4] An information distribution system given in either from claim 1 equipped with the distribution server which distributes the additional information relevant to said encryption data which is not enciphered with said encryption data, and the 1st and 2nd portable telephones equipped with the function which records said additional information on said record medium to claim 3.

[Claim 5] The information distribution system according to claim 4 characterized by including the copyright information on said encryption data in said additional information at least.

[Claim 6]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the information distribution system which used the cellular-phone network, and the information distribution system which mainly distributes music data especially.

[0002]

[Description of the Prior Art] Now, solid-state media, such as CD (compact disk) and MD (mini disc), are recorded and provided with music information, and music information is distributed by the means of communications recently installed in the specific location, and the proposal of the system that a user records this distribution music information on the self media to which it owns is made.

[0003] However, it was what only the device installed in the specific location in the above-mentioned system can record music information, but lacks in convenience. Then, these people proposed Japanese Patent Application No. No. 75916 [11 to] as a music distribution after protecting copyright as a system which gave distribution terminal capabilities and a music regenerative function to the portable telephone.

[0004]

[Problem(s) to be Solved by the Invention] However, in said system, since the owner of music data is specified by Proper ID in case distribution of music data is received from a distribution server, when transferring music data to others with a present etc., a problem occurs.

[0005] Then, this invention solves the starting problem and aims at offering the distribution system which can distribute music data convenient also in the case of transfer.

[0006]

[Means for Solving the Problem] A means to generate the encryption contents key which can decode invention concerning claim 1 by Proper ID, The encryption data which can be decoded by the contents key which decoded said generated encryption contents key and said encryption contents key, And the distribution server equipped with a distribution means to distribute the transfer distribution code which shows the existence of transfer at least in order to manage distribution, Said proper ID, said encryption contents key, said encryption data, and the record medium that records a transfer distribution code, A record means to record said proper ID, said encryption contents key, said encryption data, and said transfer distribution code on said record medium, Said proper ID and the 1st decode means which decodes said contents key from said encryption contents key, Said contents key and the 2nd decode means which decodes data from said encryption data, It is an information distribution system equipped with the means of communications which communicates through said distribution server and base transceiver station, and the 1st and 2nd portable telephones which equip a body with wearing or the insertion-and-detachment means which can carry out desorption for said record medium. In said 1st portable telephone Said record medium which recorded the encryption data and the 1st transfer distribution code which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with the 1st portable telephone received from said distribution server is removed from said 1st portable

telephone. When it equips with said 2nd portable telephone and said 1st transfer distribution code shows those with transfer, said 2nd portable telephone Said distribution server is accessed and it can decode with the 2nd portable telephone. Said distribution server is received for the decoded contents key and the 2nd encryption contents key which can decode data from said encryption data. It is the information distribution system characterized by changing into said 1st encryption contents key, and recording said 2nd encryption contents key on said record medium.

[0007] Therefore, while being able to transfer now the encryption data which received distribution the whole record medium to a third person according to invention of claim 1, the right of encryption data distribution origin can be protected.

[0008] A means to generate the encryption contents key which can decode invention concerning claim 2 by Proper ID, The encryption data which can be decoded by the contents key which decoded said generated encryption contents key and said encryption contents key, And the distribution server equipped with a distribution means to distribute the transfer distribution code which shows the existence of transfer at least in order to manage distribution, Said proper ID, said encryption contents key, said encryption data, and the record medium that records a transfer distribution code, A record means to record said proper ID, said encryption contents key, said encryption data, and said transfer distribution code on said record medium, Said proper ID and the 1st decode means which decodes said contents key from said encryption contents key, Said contents key and the 2nd decode means which decodes data from said encryption data, It is an information distribution system equipped with the 1st and 2nd portable telephones equipped with the means of communications which communicates through said distribution server and base transceiver station. The encryption data which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with said 1st portable telephone, and a transfer distribution code are recorded on the record medium with which said 1st portable telephone was equipped. it was recorded on said 1st record medium -- at least said encryption data and said transfer distribution code When it reproduces to the record medium with which said 2nd portable telephone was equipped and the reproduced transfer distribution code shows those with transfer to it, Said 2nd portable telephone accesses said distribution server, and can be decoded with said 2nd portable telephone. And it is the information distribution system characterized by what is recorded on the record medium with which received the decoded contents key and the 2nd encryption contents key which can decode data from said encryption data from said distribution server, changed into said 1st contents key, and the 2nd portable telephone was equipped.

[0009] Therefore, while being able to transfer now by making the record medium with which a third person owns the encryption data which received distribution to a third person reproduce according to invention of claim 2, the right of encryption data distribution origin can be protected.

[0010] A means to generate the encryption contents key which can decode invention concerning claim 3 by Proper ID, The encryption data which can be decoded by the contents key which decoded said generated encryption contents key and said encryption contents key, And the distribution server equipped with a distribution means to distribute the transfer distribution code which shows the existence of transfer at least in order to manage distribution, Said proper ID, said encryption contents key, said encryption data, and the 1st and 2nd record media that record a transfer distribution code, A record means to record said proper ID, said encryption contents key, said encryption data, and said transfer distribution code on said record medium, Said proper ID and the 1st decode means which decodes said contents key from said encryption contents key, Said contents key and the 2nd decode means which decodes data from said encryption data, It is an information distribution system equipped with the means of communications which communicates through said distribution server and base transceiver station, and the 1st and 2nd portable telephones which equip a body with wearing or the insertion-and-detachment means which can carry out desorption for said record medium. Said 1st record medium which recorded the encryption data and the 1st transfer distribution code which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which

can be decoded with said 1st portable telephone When it equips with said insertion-and-detachment means of said 2nd portable telephone, or from said 2nd record medium which recorded the encryption data and the 1st transfer distribution code which can be decoded by the contents key which decoded the 1st encryption contents key and the 1st encryption contents key which can be decoded with said 1st portable telephone When said encryption data and said 1st transfer distribution code are reproduced at least to said 1st record medium with which said 2nd portable telephone was equipped, said 2nd portable telephone It communicates with said distribution server and can decode with the 2nd portable telephone. It is the information distribution system characterized by receiving the decoded contents key and the 2nd encryption contents key which can decode data from said encryption data, changing said 2nd received encryption contents key into said 1st contents key, and recording it on the 2nd record medium.

[0011] Therefore, while being able to transfer encryption data by making another record medium with which transfer or a third person owns the encryption data which received distribution the whole record medium to a third person reproduce according to invention of claim 3, the right of encryption data distribution origin can be protected.

[0012] Invention concerning claim 4 is an information distribution system given in either from claim 1 equipped with the distribution server which distributes the additional information relevant to said encryption data which is not enciphered with said encryption data, and the 1st and 2nd portable telephones equipped with the function which records said additional information on said record medium to claim 3.

[0013] Therefore, according to invention of claim 4, the information about the encryption data to own can be easily known now.

[0014] Invention concerning claim 5 is an information distribution system according to claim 4 characterized by including the copyright information on code data in said additional information at least.

[0015] Therefore, according to invention of claim 5, the copyright information about the encryption data to own can be easily known now.

[0016] Invention concerning claim 6 is the information distribution system of claim 4 characterized by including the initial entry for [to said distribution server that it is few] connecting in said additional information.

[0017] Therefore, in order to reproduce the encryption data which transfer the encryption data to own and which were transferred at the time [data], in case it connects with a distribution server according to invention of claim 6, a connection place can be known easily.

[0018] Invention concerning claim 7 is the information distribution system of claim 4 characterized by including the information which can access said encryption data easily in said additional information in said distribution server that it is few.

[0019] Therefore, according to invention of claim 7, in order to reproduce the encryption data which transfer the encryption data to own and which were transferred at the time [data], after connecting with a distribution server, a distribution server can access the information about encryption data now easily, and improvement in processing speed can be aimed at.

[0020] Invention concerning claim 8 is an information distribution system [equipped with an access means to carry out automatic call origination and to access a distribution server based on the initial entry currently recorded as said additional information] according to claim 6.

[0021] Therefore, if only it is going to reproduce the transferred encryption data according to invention of claim 8, it can connect with distribution-BA automatically.

[0022] Invention concerning claim 9 is an information distribution system given in either from claim 1 characterized by rewriting the transfer distribution code which shows those with transfer which are recorded on said 1st record medium in the transfer distribution code which shows those without transfer to claim 3, when recording an encryption contents key in said 2nd portable telephone.

[0023] Therefore, according to invention of claim 9, termination of transfer processing of encryption data can be detected now also in a portable telephone, and connection with an unnecessary distribution server can be pressed down.

[0024] It is the information distribution system according to claim 2 characterized by for

invention concerning claim 10 to rewrite and record the transfer distribution code which shows those with transfer which are recorded on said record medium on the transfer distribution code which shows those without transfer when the encryption data currently recorded on said record medium with which said 1st portable telephone was equipped are made to reproduce.

[0025] Therefore, according to invention of claim 10, termination of transfer processing of encryption data can be detected now also in a portable telephone, and connection with an unnecessary distribution server can be pressed down.

[0026] Invention concerning claim 11 is an information distribution system according to claim 3 characterized by rewriting and recording the transfer distribution code which shows those with transfer which are recorded on said 2nd record medium on the transfer distribution code which shows those without transfer, when the encryption data currently recorded on said 2nd record medium are made to reproduce in said 1st portable telephone.

[0027] Therefore, according to invention of claim 11, termination of transfer processing of encryption data can be detected now also in a portable telephone, and connection with an unnecessary distribution server can be pressed down.

[0028] Invention which a claim requires for 12 is an information distribution system given in either from claim 1 characterized by having a distribution server equipped with a distribution means to distribute a transfer distribution code without transfer to claim 3.

[0029] Therefore, it is not necessary to distribute a transfer distribution code in distribution aiming at transfer, and, according to invention of claim 12, mitigation of communication link time amount can be aimed at.

[0030] Invention which a claim requires for 13 is an information distribution system given in either from claim 1 characterized by having the 1st and 2nd portable telephones equipped with a means to generate a transfer distribution code without transfer to claim 3.

[0031] Therefore, it is not necessary to distribute a transfer distribution code in distribution aiming at transfer, and, according to invention of claim 13, mitigation of communication link time amount can be aimed at.

[0032] Invention concerning claim 14 is an information distribution system given in either claim 2 characterized by the ability to distribute the transfer distribution code which permits transfer by the duplicate to two or more third persons, or claim 3.

[0033] Therefore, according to invention of claim 14, transfer can transfer encryption music data to the man of A plurality only by receiving distribution of a prestige code once from a distribution server.

[0034] Invention concerning claim 15 is the information distribution system which can transfer said encryption music data to said 2nd portable telephone from said 1st portable telephone. The 1st portable telephone equipped with a transmitting means to transmit the telephone number of said 2nd portable telephone, A distribution server equipped with a record means to record the telephone number of said 2nd portable telephone received from said 1st portable telephone, In the information distribution system which consists of the 2nd portable telephone which requires distribution of an encryption contents key of said distribution server Since it is except said 2nd portable telephone, it is an information distribution system given in claim 1 characterized by not distributing a new encryption contents key to a distribution demand, claim 2, claim 3, or claim 14.

[0035] Therefore, according to invention of claim 15, it can transfer now certainly to the partner to whom the user of the 1st portable telephone which received distribution of encryption music data wants to transfer.

[0036]

[Embodiment of the Invention] The operation gestalt of this invention is explained referring to drawing. Drawing 1 is the conceptual diagram of the information distribution system concerning this invention, and shows the case where the information distributed is music.

[0037] A distribution server 60 distributes the transfer distribution code which are additional information, such as the copyright information about the music data, such as a music name of the encryption music data to distribute, and which were enciphered as music information, and the encryption contents key which enciphered the contents key used as the key which decodes

said encryption music data and said music data, a demonstration person, composers (a singer, player, etc.), and a songwriter, and access information over the distribution server 60, and the management information about music data.

[0038] The telephone numbers are "090-*****-xxx1" and "090-**00**-xxx2", respectively, and the 1st portable telephone 51 and the 2nd telephone 53 are equipped with the device which can insert [memory card / 50 / by semiconductor memory] from the body a record medium and here. Head telephones 52 and 54 are means for a user to listen to the music which connected with portable telephones 51 and 53, respectively, and received distribution.

[0039] The music data which enciphered the music data distributed as the distribution server 60 is shown in drawing 2 , The delivery information database 61 which recorded additional information including the copyright information about the music data, such as a contents key which decodes the encryption music data and a music name of said music data, a demonstration person, composers (a singer, player, etc.), and a songwriter, etc., The transfer management database 62 for managing transfer of the distributed music data, The accounting database 63 for managing the information on accounting to distribution, It has the communication device 65 which performs communications control of the computer 64 and cellular-phone network which perform said each database management and employment, and the communication device 65 is connected with the cellular-phone network through communication networks, such as a dedicated line or a digital public line (ISDN, packet exchange network).

[0040] The proper ID set up in memory card 50 based on the telephone number of a portable telephone as shown in drawing 3 The proper ID distributed from the distribution server 60 as music information is used as a key. The encryption contents key which can be decoded, The transfer distribution code which manages the handling about transfer of additional information, such as the telephone number of the copyright information about the encryption music data which can decode the decoded contents key as a key, and said encryption music data, and a distribution server, and said distributed encryption music data is recorded. Moreover, Proper ID was constituted so that it could not take out out of a memory card 50, and the memory card 50 is equipped with the SEKYU reach function which carries out a music data pair.

[0041] The 1st portable telephone 51 and 2nd portable telephone 53 are constituted as shown in drawing 4 . In addition, only the block in connection with the information distribution system of this invention is indicated for the simplification of explanation, and the part is omitted about the block about the message function with which the portable telephone is originally equipped.

[0042] In drawing 4 , portable telephone 51 body consists of blocks shown below. It is the controller which 20 is constituted by the microcomputer and performs synthetic control of a portable telephone 51 in delivering and receiving a control signal to each block and each. Here, the notation of various control signals is omitted for simplification.

[0043] The transceiver section for 21 to perform an antenna and for 22 perform the communication link of message data or data, The voice playback section which carries out message voice digital playback of the message data which 23 received, The key which are input means, such as a dialing key for a user to take out directions to a controller, as for 24, and a special key, The display which is a display means by which 25 displays information, such as an alphabetic character, and 26 use as a key the contents key which decoded the encryption contents key within the memory card 50. The data decode section which decodes the encryption music data currently recorded in the memory card 50, and derives music data, The music playback section which 27 considers the music data drawn in said data decode section 26 as an input, and carries out digital playback of the music, 28 considers digital music from the digital message voice and the music playback section 27 from said voice playback section 23 as an input. The mixer which has the function which chooses either, outputs, or mixes and outputs/and both by the predetermined ratio, The DA converter from which 29 changes a digital signal into an analog signal, and 30 are earphone jacks which are the output terminals which output the reproduced analog signal, i.e., the reproduced message voice, and music outside.

[0044] Moreover, a memory card 50 consists of blocks shown below. 41 is a memory controller which controls a memory card 50 according to the directions from a controller 20. It carries out to each block in a memory card, and each in delivering and receiving a control signal. Here, the

notation of various control signals is omitted for simplification. The memory which is the record medium with which 42 can record encryption music data, an encryption contents key, Proper ID, additional information, and a transfer distribution code, The contents key decode section which decodes the encryption contents key which 43 used as the key the proper ID recorded on said memory 42, and was recorded on memory 42, and derives a contents key, They are the proper ID generation section in which 44 generates the proper ID relevant to the telephone number of a portable telephone, and the proper ID judging section which judges whether 45 is the proper ID relevant to the telephone number of a portable telephone 51 in the proper ID recorded on memory 42.

[0045] Furthermore, Bus A showed the data bus of a portable telephone 51, Bus B showed the data bus in a memory card 50, and 46 is a bus interface which connects Bus A and Bus B, and is equipped with the connector which can insert [memory card / 50] easily from a portable telephone 51 bordering on the bus interface 46.

[0046] The principle of a system is explained with reference to drawing 1 . In order that the user of the 1st portable telephone 51 may transfer music data to the user of the 2nd portable telephone 53 a third person and here When the distribution server 60 is accessed, in the distribution server 60, from the delivery information database 61 A contents key, The encryption contents key which reads encryption music data, additional information, and a contents key, and can decode the proper ID relevant to the telephone number of the 1st portable telephone 51 as a key, The right which can receive distribution of a new encryption contents key anew to the transferred third person, i.e., a transfer distribution code with the right of transfer, is generated, and an encryption contents key, a transfer distribution code, additional information, and encryption music data are distributed as music data. Moreover, generating of the right of transfer is recorded by updating the transfer management database 62. In the 1st portable telephone, this distributed music data records on a memory card 50.

[0047] From the 1st portable telephone 51 which received distribution, a memory card 50 is sampled and a memory card 50 is transferred to the user of the 2nd portable telephone 53. The user of the 2nd portable telephone 53 inserts the transferred memory card 50 in the 2nd portable telephone 53. In the 2nd portable telephone 53, when reproducing the music data recorded on the memory card 50 for the first time, the distribution server 60 is accessed, distribution of the encryption contents key which can be decoded by the proper ID relevant to the telephone number of the 2nd portable telephone 53, and a transfer distribution code without the right of transfer is received from the 2nd portable telephone 53, and ownership is changed by rewriting Proper ID, an encryption contents key, and a transfer distribution code. In the distribution server 60, the transfer management database 62 is updated and termination of transfer is recorded. Next, actuation is explained using flow CHATO.

[0048] Actuation in case the user of the 1st portable telephone 51 of <the purchase processing of music data> purchases music data is explained using drawing 5 R> 5, drawing 6 , and drawing 9 . In addition, the flow chart with which drawing 5 shows purchase processing with the 1st portable telephone 51, and drawing 6 shows the message distribution processing in the distribution server 60, and A of drawing 9 are drawings showing the inside of the memory card 50 at the time of receiving distribution, and when, as for an upper case, the user of said 1st portable telephone 51 receives distribution for the purpose of self-possession, the lower berth is the case where distribution is received for the purpose of transfer.

[0049] Proper ID(1) 71 which are the proper ID relevant to the telephone number "090-*****-xxx1" of the 1st portable telephone 51 in the memory card 50, Encryption contents key (1) 72 which can be decoded in proper ID(1) 71 distributed from the distribution server 60, Encryption contents key (1) Additional information 74, such as copyright information over the encryption music data 75 and music data which can be decoded by the contents key which decoded 72, and an initial entry to the distribution server 60, On the upper case, transfer distribution code (0) 78 without the right of transfer and transfer distribution code (1) 73 which have a right of transfer in the lower berth are recorded.

[0050] In order for the 1st portable telephone 51 to receive distribution of music data, the user of the 1st portable telephone 51 operates a key 24. the initial entry to the distribution server 60

containing the telephone number of the distribution server 60 -- inputting (step 101) -- In response to said initial entry from a key 24, a controller 20 dials the telephone number of the distribution server 60 to a cellular-phone network through the transceiver section 22 and an antenna 21, and connects a circuit with the distribution server 60 (step 102).

[0051] On the other hand, according to the arrival from the 1st portable telephone 51 (step 201), the distribution server 60 acquires the telephone number "090-*****-xxx1" of the 1st portable telephone 51 from a cellular-phone network at the same time it performs a line connection with a portable telephone (step 202).

[0052] Subsequently, the distribution server 60 transmits the song selection information on the music data containing the best 10, recommendation music, etc. which can be distributed (step 203). In the 1st portable telephone 51, the selection information which received selection information and received on the display 25 is displayed (step 103). the song selection and the user of music data who a user refers to the song selection information displayed on the display 25, and ask for distribution -- him -- self-possession -- carrying out (transfer No) -- a third person -- transferring (transfer Yes) -- the shown transfer purpose is determined and it inputs through a key 24 (step 104). A controller 20 receives the input from a key 24, and said song selection and the distribution purpose are transmitted to a distribution server (step 105).

[0053] The distribution server 60 receives said song selection and distribution purpose (step 204). According to the song selection which received, additional information 74 and the encryption music data 75 are acquired from the delivery information database 61, and it transmits to the 1st portable telephone 51 (step 205).

[0054] After ending transmission of additional information 74 and the encryption music data 75, proper ID(1) 71 relevant to said telephone number "090-*****-xxx1" are generated. The contents key which can decode the music data encryption music data 75 directed by said song selection is acquired from the delivery information database 61. Said generated proper ID (1) Encryption contents key (1) 72 which can decode said contents key by 71 are generated (step 206). Subsequently, the distribution purpose is checked (step 207), and when the distribution purpose is [the user of the 1st portable telephone 51] self-possession (transfer No), transfer distribution code (0) 78 without the right of transfer are generated (step 210). In transfer of the distribution purpose for a third person, the transfer management database 62 is accessed and transfer distribution code (1) 73 are generated for new Control Code which is not registered into the transfer management database 62 (step 208). And in order to add the transfer information managed in said transfer distribution code (1) 73, the transfer management database 62 is updated (step 209).

[0055] Subsequently, the transfer distribution code generated at encryption contents key (1) 72 and step 208, or step 210 generated at step 206 is transmitted (step 211), and it will be in the condition of the waiting for reception of the distribution acceptance from the 1st portable telephone 51 (step 212).

[0056] In the 1st portable telephone 51, the additional information 74 and the encryption music data 75 which are transmitted from the distribution server 60 are taken out as data in the transceiver section 22 through an antenna 21, and sequential record is carried out at the memory 42 in a memory card 50. Then, distribution acceptance is transmitted in order to notify that reception of all data was completed to the distribution server 60, after receiving transfer distribution code (1) 73 or transfer distribution code (0) 78, and encryption contents key (1) 72 (step 107) and completing reception (step 108).

[0057] After transmission of distribution acceptance is completed, the 1st portable telephone 51 cuts a circuit (step 109), records the received transfer distribution code and encryption contents key (1) 72 on the memory 42 in a memory card 50, and ends ***** (step 110) processing (step 111).

[0058] The distribution server 60 updates the accounting database 63 in order to perform accounting of as opposed to [when it receives] distribution of cutting (step 213) and said music data for a circuit with the 1st portable telephone 51 which is distribution acceptance from the 1st portable telephone 51 (step 214), and it ends message distribution processing (step 215).

[0059] When the user of the 1st portable telephone 51 which received <regeneration of music

data by owner> distribution plays music with the 1st portable telephone 51, the case where the owner of music data plays music is explained according to drawing 7. Drawing 7 is a flow chart which shows regeneration with the 1st portable telephone 51.

[0060] a sound -- easy playback directs -- having (step 120) -- a transfer distribution code is checked (step 121). When distribution is received for the purpose of a user owning, as shown in A upper case of drawing 9, transfer distribution code (0) 78 without the right of transfer are recorded (transfer No), and it progresses to step 123. Moreover, in order to transfer, when distribution is received, transfer distribution code (1) 73 which have a right of transfer as shown in A lower berth of drawing 9 are recorded (transfer Yes). Progress to step 122 and proper ID(1) 71 currently recorded on the memory 42 in a memory card 50 confirm whether to be a thing relevant to the telephone number "090-*****-xxx1" of the 1st portable telephone 51 in the proper ID judging section 45. An owner is judged (step 122). here, since it is music data which received distribution with the 1st portable telephone 51, it is judged by proper ID(1) 71 relevant to the telephone number of the 1st portable telephone 51 recorded on the memory card 50 until transfer was completed that the user of the 1st portable telephone 51 comes out of the owner of music data, and it progresses to step 123 by them.

[0061] Subsequently, proper ID(1) 71 and encryption contents key (1) 72 are read from the memory 42 in a memory card 50, and it is **** (step 123) about decode of the contents key of the contents key decode section 43. When it can decode, normal termination (decode Yes) of decode is data decode minded [26], the bus interface 46 is minded [20], and the decoded contents key is notified. When it cannot decode, abnormal termination (decode No) of decode is notified to a controller 20 through the bus interface 46. Moreover, in response to the decode result of the contents key decode section 43, in Decode Yes, a controller 20 judges that it is refreshable and it is judged that it judges [that it is unreproducible and] to step 124, and it progresses to it Decode No case to step 125. Here, decode of encryption contents key (1) 72 can surely be performed. Therefore, it surely progresses to step 124.

[0062] A controller 20 supplies the decoded contents key to the data decode section 26, it ranks second, the encryption music data 75 are read from memory 42 to the memory controller 41, and it directs to supply the data decode section 26. A controller 20 will change the playback music data from a mixer 28 into DA converter 29 at an analog, and if read-out of the encryption music data 75 begins from memory 42, it will issue directions so that it may output to the earphone jack 30, so that the playback music data from the music playback section 27 may be chosen and outputted to a mixer 28, so that music may be played in the data decode section 26 and the music playback section 27.

[0063] The data decode section 26 decodes the encryption music data 75 read from memory 42 by using the decoded contents key which was inputted from the contents key decode section 43 as a key, and obtains coding music data, such as MIDI and MPEG Audio. The music playback section 23 reproduces the coding music data decoded in said data decode section 26 according to a coding method, and obtains playback music data. A mixer 28 chooses said playback music data, and supplies them to DA converter 29. DA converter 29 changes said playback music data into an analog signal, and plays music. The played music is outputted from the earphone jack 30. The user of the 1st portable telephone 51 can connect a head telephone 52 to the earphone jack 30, and can enjoy playback music (step 124).

[0064] Termination of playback stops regeneration (step 125). The user of the 2nd portable telephone 53 yields memory card 50 from the user of the 1st portable telephone 51, or borrows, and explains the case where music is played with the 2nd portable telephone 53, according to drawing 7 and drawing 8. The flow chart with which drawing 7 shows regeneration with the 2nd portable telephone 53, and drawing 8 are flow charts which show the transfer processing by the distribution server 60. It is the case where the memory card 50 which is in the condition of the upper case of A of drawing 9 borrowing the memory card 50 which is yielding a memory card 50 in the condition of the lower berth of A of drawing 9 is reproduced with the 2nd portable telephone 53.

[0065] a memory card 50 is inserted in the 2nd portable telephone 53 by the user of the 2nd portable telephone 53 of <regeneration of the borrowed music data>, and by him, it points so

that music playback may be carried out -- having (step 120) -- the check of a transfer distribution code is performed (step 121).

[0066] When it is a memory card 50 or borrowing (transfer No), it progresses to step 123 and proper ID(1) 71 and encryption contents (1) 72 are read from the memory 42 in a memory card 50, and it is **** (step 123) about decode of the contents key of the contents key decode section 43.

[0067] When it can decode, normal termination (decode Yes) of decode is data decode minded [26], the bus interface 46 is minded [20], and the decoded contents key is notified.

Regeneration is ended, after playing music (step 124) and completing playback (step 125).

[0068] Since Proper ID is recorded on the security field which cannot be read from a memory card 50 and it cannot be reproduced when it cannot decode, it is ***** data which reproduced music data with a certain unjust means, and processing is ended, without being judged with what (decode No) cannot reproduce an encryption contents key, and playing music very much to step 125.

[0069] When the <regeneration of transferred music data> memory card 50 is yielded (transfer Yes), it progresses to step 122 from step 121. Correspondence with proper ID(2) 76 relevant to the telephone number "090-**00**-xxx2" of the 2nd portable telephone 53 generated in proper ID(1) 71 and the proper ID generation section 44 in a memory card 50 is performed in the proper ID judging section 45, and an owner is judged (step 122). At this time, a memory card 50 is in the condition of B of drawing 9, and the owner of music data is a user of the 1st portable telephone 51. Therefore, an owner is not a user of the 2nd portable telephone 53 (owner No), and progresses to step 126.

[0070] With reference to the telephone number which is the initial entry of the distribution server 60 recorded on the additional information 74 recorded on the memory 42 in a memory card 50, it dials automatically through the transceiver section 22 and an antenna 21, and a circuit is connected with the distribution server 60 (step 126). Then, transfer distribution code (1) 73 are transmitted to the distribution server 60 (step 127).

[0071] The distribution server 60 starts processing by arrival of the mail from the 2nd portable telephone 53 (step 220), and obtains the telephone number "090-**00**-xxx2" of connection and the 2nd portable telephone for a circuit with the 2nd portable telephone 53 from a cellular-phone network (step 221). Subsequently, transfer distribution code (1) 73 are received (step 223). Received transfer distribution code (1) According to 73, transfer distribution code (1) 73 which accessed the transfer management database 62 and received are effective, or judge no (step 224).

[0072] Transfer distribution code (1) When 73 is effective (transfer Yes), proper ID(2) 76 are generated based on the telephone number "090-**00**-xxx2" of the 2nd portable telephone obtained from the cellular-phone network, the contents key of the music data which receive transfer is acquired from the delivery information database 61, and new encryption contents key (2) 77 which can be decoded in proper ID(2) 76 are generated (step 225). Generated encryption contents key (2) 77 and transfer distribution code (0) 78 without the right of transfer are transmitted to the 2nd portable telephone 53 (step 226). Subsequently, after transmission of encryption contents key (2) 77 in connection with transfer is completed, it will be in the condition of the waiting for the distribution acceptance from the 2nd portable telephone 53 (step 227). If the distribution acceptance from the 2nd portable telephone 53 is received, the distribution server 60 will update the transfer management database 62, and will record termination of transfer (step 228). Cutting (step 229) and transfer processing [in / for a circuit with the 2nd portable telephone 53 / the distribution server 60] are ended (step 230).

[0073] When transfer distribution code (1) 73 are invalid (transfer No), the transfer processing concerning transfer distribution code (1) 73 is already completed. Transfer distribution code (1) When the data concerning 73 do not exist in transfer *****-SU 62, A transfer failure is notified (step 231) and cutting (step 229) and transfer processing [in / for a circuit with the 2nd portable telephone 53 / the distribution server 60] are ended in transfer failure (step 230).

[0074] In the 2nd portable telephone 53, the notice which does not transfer [reception or] encryption contents key (2) 77 and transfer distribution code (0) 78 from a distribution server is

received (step 128), and the received receiving result is checked after reception (step 129).

[0075] Encryption contents key (2) 77 and transfer distribution code (0) 78 is received, in order to notify termination of reception of distribution data to the distribution server 60, distribution acceptance is transmitted (step 130), and a circuit is cut (step 131). To proper ID(2) 76 relevant to the telephone number "090-**00**-xxx2" of the 2nd portable telephone 53, proper ID(1) 71 currently recorded on the memory 42 in a memory card 50 Encryption contents key (1) A contents key can be decoded by using as a key proper ID(2) 76 which received 72. And transfer distribution code (1) 73 are rewritten to transfer distribution code (0) 78 without the right of transfer, and it will be in the condition of C of drawing 9 R> 9 encryption contents key (2) 77 which can decode the encryption music data 75 by using as a key the contents key decoded and obtained (step 132). At this time, the owner of the music data currently recorded on the memory card 50 is changed from the user of the 1st portable telephone 51 to the user of the 2nd portable telephone 53, and becomes the data configuration as the case where distribution is received for these music data using the 2nd portable telephone 53 with the same user of the 2nd portable telephone 53.

[0076] Subsequently, the encryption music data 75 are decoded decoding a contents key in the contents key decode section 43 from encryption contents key (2) 77 (step 133), and using an input and said contents key as a key for the encryption music data 75 currently recorded on said decoded contents key and memory 42 to the data decode section 26 by using proper ID(2) 76 as a key, and music data are obtained. The decoded music data are reproduced as music through the music playback section 27, a mixer 28, DA converter 29, and the earphone jack 30 (step 124). The user of the 2nd portable telephone 53 can connect a head telephone 54 to the earphone jack 30, and can enjoy said played music. After musical playback is completed, regeneration ***** (step 125).

[0077] When a transfer failure is received, decode of encryption contents key (1) 72 is tried in the contents key decode section 43 by using as a key proper ID(1) 71 recorded on the memory 42 in a memory card 50 in the contents key decode section 43 (step 123). Music is played when it decodes (step 124). The user of the 2nd portable telephone 53 is treated as what borrowed the memory card 50, and can enjoy playback music through a head telephone 54. Termination of playback terminates regeneration (step 125). On the contrary, when not decoding (decode No), it is judged that the music data in memory card are unjust acquisition, and processing is completed while music playback has not been carried out by it (step 125).

[0078] Since Proper ID, encryption contents key, and transfer distribution code which are recorded on the memory 42 in a memory card 50 by transfer processing are changed, regeneration including transfer processing is performed and, as for the back, the owner of said music data turns into a user of the 2nd portable telephone 53. Therefore, in reproducing henceforth, it comes to follow a playback flow in case he who received the distribution explained previously reproduces music data.

[0079] after postponing previously the processing which an electric-wave condition is bad, and gives up access to the distribution server 60, treats as what borrowed the memory card 50 when connection with the distribution server 60 in a cellular-phone network cannot be performed, and relates to transfer although not described by the flow chart -- a sound -- it is also possible to perform easy playback.

[0080] By the memory card 50, the user of the 1st portable telephone 51 explains changes of the data in the memory card 50 when transferring music data to the user of the 2nd portable telephone 53, and changes of the transfer management database 62 with reference to drawing 9 and drawing 10. As for drawing 10 of a memory card 50, drawing 9 shows changes of the transfer management database 62.

[0081] A transfer distribution code is Control Code assigned uniquely, in order to manage data in the transfer management database 62, and transfer distribution code (0) 78 used for a transfer distribution code without the right of transfer prepare "0000" as a reservation code, and appear in the transfer management database 62. Control Code and the distributed person telephone number which manage the music data which distribute an information management code in the delivery information database 61 are the telephone number of the portable telephone which

received distribution of music data with the right of transfer. A transfer flag is a flag which shows the distribution condition of the encryption contents key by transfer, "1" shows un-transferring and "0" shows transfer ending.

[0082] A of drawing 10 is in the condition before the user of the 1st portable telephone 51 receives distribution. 24 sets of data streams of "0024" are recorded here from the information management code "0001", the music data with which the data stream of the bottom is set as a transfer distribution code "0024" and the object of transfer are music data of the information management code "0932" of the delivery information server 61, the user of the telephone number "090-OO**x-1113" receives distribution, and it is still shown that transfer is not performed. Moreover, the music data with which the 4th step of data stream is set as a transfer distribution code "0004" and the object of transfer are music data of the information management code "0064" of the delivery information server 61, and the user of the telephone number "090-****OO-6789" receives distribution, and they have already shown ** to which transfer was performed. Therefore, even if it newly asks for distribution of the encryption contents key by transfer from the distribution server 60 using a transfer distribution code "0004", distribution of said encryption contents key is refused. In A of drawing 10, the data about the distribution accompanied by transfer by the 1st portable telephone 51 are not recorded yet.

[0083] B of drawing 10 is in the condition of the transfer management database 62 immediately after the user of the 1st portable telephone 51 receives distribution aiming at transfer. The data stream is newly added to the bottom. In order that the 1st portable telephone 51 of "090-*****-xxx1" may transfer the telephone number, having received distribution of the music data of an information management code "1000" is shown. Transfer distribution code (1) 73 is set to "0025."

[0084] C of drawing 10 is in the condition after transferring a memory card 50 from the user of the 1st portable telephone 51 to the user of the 2nd portable telephone 53, being reproducing the music data with which the user of the 2nd portable telephone 53 was transferred once at least, accessing the distribution server 60 and materializing transfer. A transfer flag changes to "0" from "1", and it is shown that transfer was materialized.

[0085] Change of the data in the memory card 50 when the user of the 1st portable telephone 51 transfers to the user of the 2nd portable telephone 53 is explained with reference to drawing 9.

[0086] A lower berth of drawing 9 is in the condition in the memory card 50 in the 1st portable telephone 51 immediately after the user of the 1st portable telephone 51 receives distribution of music data for the purpose of transfer. Transfer distribution code (1) 73 is recording "0025" which can access the transfer management database 62 of the distribution server 60. Moreover, proper ID(1) 71 are the proper ID relevant to the telephone number "090-*****-xxx1" of the 1st portable telephone 51.

[0087] As for proper ID(1) 71, encryption contents key (1) 72, and transfer distribution code (1) 73, rewriting is performed as long as the user of the 1st portable telephone 51 is reproducing said music data.

[0088] B of drawing 9 is in the condition in which the user of the 1st portable telephone 51 transferred the memory card 50 to the user of the 2nd cellular-phone number 53, and the user of the 2nd portable telephone 53 inserted the memory card 50 in the 2nd portable telephone 53. Proper ID (1) It is in a condition [that 71, encryption contents key (1) 72, and transfer distribution code (1) 73 are recorded on a memory card 50]. Therefore, the owner of said music data will call it the user of the 1st portable telephone 51.

[0089] C of drawing 9 is in the condition after playing music once and accessing the distribution server 60 at least. The 2nd portable telephone 53 A distribution server to encryption contents key (2) 77, Proper ID(1) 71 which receive distribution of transfer distribution code (0) 78 without the right of transfer, and are recorded on the memory card 50 from the condition of B of drawing 9, encryption contents key (1) 72, and transfer distribution code (1) 73 It is in the condition that rewrote to proper ID(2) 76, encryption contents key (2) 77, and encryption contents key (2) 78, and the owner of music data was changed by the user of the 2nd portable telephone 53,

respectively.

[0090] Thus, since modification of the owner by transfer is managed in the transfer management database 62 in the distribution server 60, an encryption contents key cannot be distributed to the duplicate of an unjust memory card, and the right of music data distribution-origin can be protected.

[0091] As additional information 74, information with the added value of initial entries, such as the telephone number (distributing agency telephone number) of copyright information, such as a music name, a demonstration house (a singer name, player), and a copyright person, and the distribution server 60 and Control Code of music data, playback time amount, words, a score, a jacket image, etc. can be considered, for example. If additional information is a distributing agency, makes and gives a pair to said encryption music data 75 and is recorded on a memory card 50, no matter it may be what information, it is not an exception.

[0092] Although the transfer distribution code was explained as Control Code which the fixed code which is not given as said management number which means the distribution for Control Code for accessing said transfer management database 62 and distributed persons combined, it is not an exception no matter it may be what thing, if it is the coding scheme it is discriminable in distribution (distribution with the right of transfer) or no (distribution without the right of transfer) aiming at transfer.

[0093] Moreover, transfer distribution code (0) 78 without the right of transfer are generated by the distribution server 60, and after distribution, although it explained that it recorded on a memory card 50, even if transfer distribution code (0) 78 assign a fixed code and record it on a memory card 50 by the portable telephone side, they are not an exception.

[0094] Next, the 2nd example of the information distribution system by which this invention is involved is explained. This example changes the configuration of the music data in the memory card 50 at the time of receiving distribution, in order to perform transfer in the 1st example.

[0095] Drawing 11 changes only the data configuration of the lower berth of A of drawing 9, and the memory card 50 of B of drawing 9, and has attached the same number for drawing 9 about the same component among drawing.

[0096] Drawing 12 excludes the proper ID judging section 45 in drawing 4. Among drawing, the same number is attached about the same block as drawing 4, and explanation is omitted. Only by a part of program in connection with regeneration of the music data by the owner in the memory controller 41 being changed, the same processing is performed about other blocks.

[0097] The flow chart which shows the regeneration flow of the portable telephone accompanying modification of memory structure is shown in drawing 13. The same processing as drawing 7 is performed except for the point of having changed step 122 of the flow chart of drawing 7 into step 135.

[0098] At step 135, the telephone number of a portable telephone is inputted into the proper ID generation section 44, and Proper ID is generated. And decode of the encryption contents key currently recorded on memory 42 by using the generated proper ID as a key is tried in the contents key decode section 43. If it can decode, it will be the purchaser who purchased music data, and he is an owner until transfer processing is performed (possession Yes). On the contrary, when it cannot decode, it becomes what is not been an owner (possession No).

[0099] The distributed person of music data is reincarnated in order to try listening music before transfer, and he judges that he is the owner (possession Yes) of music data, and music is played in the condition of A of drawing 11, i.e., the condition that an encryption contents key can be decoded, from the encryption music data recorded on memory 42 at step 124.

[0100] On the contrary, although the memory card 60 was transferred, since access to the distribution server 60 concerning transfer is not performed, a change of an owner is made and it judges that there is nothing (owner No), and by performing step 126 – step 132, an owner is changed and it will be in the condition of C of drawing 11 according to the condition of B of drawing 11, i.e., the condition that an encryption contents key cannot be decoded. Music is played at step 133 and step 124.

[0101] Since the purchase processing flow, and the message distribution processing and the transfer processing flow in the distribution server 60 of the distribution server 60 in a

configuration and a portable telephone are the same as that of the 1st example, they omit explanation.

[0102] Playback of the music in the 2nd example is explained with reference to drawing 11. The upper case of A of drawing 11 is in the condition which received distribution, in order that the user of the 1st portable telephone 51 may do self-possession of the music data. Proper ID(1) 71 and proper ID (1) Both encryption contents key (1) 72 corresponding to 71 are recorded on the memory card 50, and playback is possible. Transfer distribution code (0) 78 is a transfer distribution code without the right of transfer.

[0103] A lower berth of drawing 11 is in the condition of the memory card 50 immediately after the user of the 1st portable telephone 51 receives distribution aiming at transfer. The proper ID field where Proper ID is not recorded is in the condition of the <empty> which is not recorded. Encryption contents key (1) The encryption contents key corresponding to proper ID(1) 71 relevant to the telephone number of the 1st portable telephone 51 with which 72 received distribution of music data, and transfer distribution code (1) 73 are transfer distribution codes with the right of transfer. This condition is that only the user of the 1st portable telephone 51 generates proper ID(1) 71 in the proper ID generation section 44 from the telephone number "090-*****-xxx1" of the 1st portable telephone 51, and musical playback is possible for it. Moreover, as long as it is reproducing with the 1st portable telephone 51 which received distribution, record of Proper ID and re-record of an encryption contents key and a transfer distribution code are not performed.

[0104] B of drawing 11 is in the condition in which the memory card 50 was transferred from the user of the 1st portable telephone 51 to the user of the 2nd cellular-phone number 53, and the user of the 2nd portable telephone 53 inserted the memory card 50. At this time, <empty> encryption contents key (1) 72 and transfer distribution code (1) 73 are recorded for a proper ID field. Since proper ID(1) 71 used as the key which decodes encryption contents key (1) 72 recorded on the memory card 50 are ungenerable with the 2nd portable telephone 53, they cannot play music. In this condition, if the user of the 2nd portable telephone 53 plays music Based on additional information, dial automatically and it connects with the distribution server 60. Distribution of encryption contents key (2) 77 which enciphered the contents key for decoding the encryption music data 75, and transfer distribution code (0) 78 without the right of transfer is received from the distribution server 60. Said encryption contents key (2) A change of an owner is made by newly recording proper ID(2) 76 relevant to the telephone number "090-**00*-xxx2" of record and the 2nd portable telephone 53 for 77 and said transfer distribution code (0) 78 on a memory card 50 by overwrite. While distributing encryption contents key (2) 77 and transfer distribution code (0) 78 in the distribution server 60 at this time, it records that updated the transfer management database 62 and the transfer concerning transfer distribution code (1) 73 was completed.

[0105] C of drawing 11 is in the condition after transfer was materialized and the owner of music data was changed by the user of the 2nd portable telephone 53. It is in the condition that both encryption contents key (2) 77 corresponding to proper ID(2) 76 relevant to the telephone number of the 2nd portable telephone 53 and proper ID(2) 76 were recorded on the memory card 50, and playback is possible. Transfer distribution code (0) 78 is a transfer distribution code without the right of transfer.

[0106] Thus, a change of the owner of the music data at the time of transferring a memory card 50 can be made under management of a distribution server. Moreover, since modification of the owner by transfer is managed in the transfer management database 62 in the distribution server 60, an encryption contents key cannot be distributed to the duplicate of an unjust memory card, and the right of a distributing agency can be protected.

[0107] Next, the 3rd example of the information distribution system concerning this invention is explained. The configuration of the transfer database 62 in the distribution server 60 in the 1st and 2nd examples is changed, and an information distribution system is extended so that the distributed person who is a user of the portable telephone which received distribution can specify the third person who transfers by applying the transfer place telephone number.

[0108] Drawing 14 enables it to specify the telephone number (transfer place telephone number)

of the portable telephone of the third person set as the object of transfer, in order that the distributed person who is the example of a configuration of the transfer management database 62 in the third example, and purchased music data may specify the partner who transfers.

[0109] Drawing 14 is explained. In order that the user of the 1st portable telephone 51 may transfer to the user of the 2nd portable telephone 53, it is in the condition of the transfer management database 62 after receiving distribution. The bottom is as a result of said distribution. They are the distributed [transfer distribution code "0025"] person telephone number "090-*****-xxx1", the transfer place telephone number "090-**OO**-xxx2", an information management code "1000", and a transfer distribution flag "1." It is shown that the user of the 1st portable telephone 51 of the telephone number "090-*****-xxx1" is the purpose transferred to the user of the 2nd portable telephone 53 of the telephone number "090-**OO**-xxx2", and receives distribution of the music data managed in information management code "1000" with the delivery information database 61, and transfer has not ended this.

[0110] Even if things other than the 2nd portable telephone 53 ask for distribution of an encryption contents key from the distribution server 60 using a transfer distribution code "0025", distribution of said encryption contents key is not performed. If it can ask for distribution of an encryption contents key in transfer distribution code "0025" from the 2nd portable telephone 53, encryption contents key (2) 77 will be distributed, and after distribution is completed, a transfer flag is updated from "1" to "0."

[0111] Moreover, when the transfer place telephone number is not indicated like the 4th step of data stream, not specifying the partner who transfers is shown.

[0112] Drawing 15 is a flow chart with which purchase processing with the 1st portable telephone 51 and drawing 16 show the message distribution processing in the distribution server 60, and drawing 17 shows the transfer processing by 60 of a distribution server. Since the regeneration in a portable telephone is realizable by the same processing as the 1st example, a flow chart is omitted.

[0113] Drawing 15 adds step 112, step 113, and step 114 after step 104 of drawing 5, and performs the same processing except for the point of having changed step 105 into step 115. Moreover, drawing 16 performs the same processing except for the point that changed step 204 of drawing 6, and step 209 into step 216 and step 217, and drawing 17 changed step 224 of drawing 8 into step 232, respectively. Regeneration of the music data with which the music data which had modification from the 1st example were transferred [with which were transferred and it was purchase-processed] is explained, and explanation of regeneration of the music data by the owner who is the same processing as the 1st example, and regeneration of the music data based on borrowing is omitted.

[0114] the 1st example of <music data purchase processing> -- since -- only a changed part is explained. The 1st portable telephone 51 requires [song selection and the distribution purpose] an input (step 112) of a user for the existence of an input (step 104), in addition transfer place assignment like the first example. After an input is completed by the user, existence of a transfer place is judged (step 113). When a transfer place is specified, the input of the transfer place telephone number is again required of a user, and the input of the telephone number is received (step 114). After the input by the user is completed, the 1st portable telephone 51 transmits the information about transfer places, such as song selection, the distribution purpose and existence of transfer place assignment, and the transfer place telephone number, to the distribution server 60 (step 115).

[0115] The information about transfer places, such as song selection transmitted from the portable telephone by the distribution server 60, the distribution purpose and existence of transfer place assignment, and the transfer place telephone number, is received (step 216). When a receiving result is judged to be the transfer purpose (transfer Yes) (step 207), generation (step 208) and a transfer management database 62 update for transfer distribution code (1) 73, and transfer place information, such as the distributed person telephone number, and the existence of the song selection which received, and transfer place assignment, the transfer place telephone number, etc. records as transfer information which can be accessed in transfer distribution code (1) 73 generated (step 217).

[0116] the 1st example of <regeneration of the transferred music data> -- since -- only a changed part is explained. The distribution server 60 receives a transfer distribution code (step 223), and its received transfer distribution code is effective, or judges it in an invalid (step 232). Received transfer distribution code (1) 73 is recorded on the transfer management database 62, and when the transfer flag of the transfer place telephone number ["0" and] which can be accessed in transfer distribution code (1) 73 corresponds with the telephone number of the 2nd portable telephone 53 connected in quest of transfer, it is judged as negotiable (transfer Yes), and in being other, it judges that transfer is impossible (transfer No).

[0117] Thus, the purchased music data can be transferred now to the third person who specified beforehand, and the volition about protection of the right of a distributing agency and transfer of the distributed person who received distribution can be protected now.

[0118] Subsequently, the 4th example of the information distribution system concerning this invention is explained. The flow chart which shows the purchase processing flow of music data [in / in the conceptual diagram of the information distribution system which distributes another music data which drawing 18 requires for this invention and drawing 19 / a portable telephone], the flow chart which shows the message distribution processing flow of music data [in / in drawing 20 / the distribution server 68], and drawing 21 R> 1 are drawings showing the condition changes in the memory card in transfer.

[0119] The distribution server 68 of drawing 18 is a distribution server which offers transfer by the duplicate of the music data in this example. The portable telephone with which the 1st portable telephone 51 receives distribution of music data, and the 3rd portable telephone 56 are portable telephones which receive transfer from the user of the 1st portable telephone 51. The memory card and memory card 55 which recorded the music data with which the memory card 50 was distributed are a memory card which receives transfer by the duplicate. Among drawing, the same number is attached about the same component as the 1st example, and explanation is omitted. Furthermore, in drawing 2 , since the regeneration flow concerning [in the 1st portable telephone 51 and 3rd portable telephone 56] musical playback at drawing 4 can realize the transfer processing flow in drawing 7 and the distribution server 68 at drawing 8 , the distribution server 68 omits explanation.

[0120] When the user of the 1st portable telephone 51 owns the encryption music data 75 as music data, as shown in A of drawing 21 R> 1, encryption contents key (1) 72 which can be decoded in proper ID(1) 71 relevant to the telephone number of the 1st portable telephone 51 and proper ID(1) 71, transfer distribution code (0) 78 without the right of transfer, additional information 74, and the encryption music data 75 are recorded on the memory card 50.

[0121] When transferring said music data to own to the user of the 3rd portable telephone 56, distribution of transfer distribution code (1) 73 which access the distribution server 68 and have a right of transfer is received, transfer distribution code (0) 78 in a memory card 50 are memorialized, and transfer distribution code (1) 73 are recorded. At this time, a memory card 50 will be in the condition of B of drawing 21 .

[0122] Moreover, when receiving distribution in the form which has a right of transfer in the music data which are not recorded on a memory card 50, distribution of encryption contents key (1) 72 relevant to the telephone number of the 1st portable telephone 51 in which proper ID(1) 71 ***** is possible, transfer distribution code (1) 73 with the right of transfer, additional information 74, and the encryption music data 75 is received, and it records on a memory card 50, and will be in the condition of B of drawing 21 similarly.

[0123] In the distribution server 68, while distributing transfer distribution code (1) 73 with the right of transfer, the transfer management database 62 is updated and transfer generating is recorded.

[0124] The user of the 1st portable telephone 51 transfers music data by making the memory card 55 of the 3rd portable telephone 56 reproduce encryption contents key (1) 72, transfer distribution code (1) 73 with the right of transfer, additional information 74, and the encryption music data 75 by the cable or wireless (for transceiver mode and a cellular-phone network to be included) from the music data recorded on the memory card 50. At this time, transfer distribution code (1) 73 of the 1st portable telephone 51 are rewritten by transfer distribution

code (0) 78 without the right of transfer. Thus, it will be in the condition of C of drawing 21. Since the encryption contents key which can decode the encryption music data 75 with the 3rd portable telephone 56 is not recorded on a memory card 55, the 3rd portable telephone 56 cannot perform musical playback. Proper ID (3) 80 is beforehand recorded on the memory card 55.

[0125] Proper ID (1) Although it said that all the data except 71 are reproduced, the same result will be obtained if transfer distribution code (1) 73, additional information 74, and the encryption music data 75 are made to reproduce at least.

[0126] When the user of the 3rd portable telephone 56 is reincarnated for the first time, it is based on additional information 74. Access to the distribution server 68 automatically and the distribution of encryption contents key (3) 81 and transfer distribution code (0) 78 which can decode the encryption music data 75 at least with the 3rd portable telephone 56 is received. Ownership is changed into a memory card 55 by rewriting transfer distribution code (1) 73 to transfer distribution code (0) 78 without the right of transfer, and it will be in the condition of D of drawing 21. In the distribution server 68, the transfer management database 62 is updated by said access, and termination of transfer is recorded.

[0127] A processing flow in case the user of the 1st portable telephone 51 of <the purchase processing of music data> receives distribution of music data is explained according to drawing 19 and drawing 20. In order for the 1st portable telephone 51 to receive distribution of music data, the user of the 1st portable telephone 51 operates the key 24 of a portable telephone 51. If the initial entry to the distribution server 68 containing the telephone number of the distribution server 68 is inputted In response to said initial entry from a key 24, a controller 20 dials the telephone number of the distribution server 68 to a cellular-phone network through the transceiver section 22 and an antenna 21, and connects a circuit with the distribution server 68 (step 141).

[0128] On the other hand, according to the arrival from the 1st portable telephone 51, the distribution server 68 acquires the telephone number "090-*****-xxx1" of the 1st portable telephone 51 from a cellular-phone network at the same time it performs a line connection with a portable telephone (step 241). Then, the song selection information on the music data which contain the best 10, recommendation music, etc., for example and which can be distributed is transmitted (step 242).

[0129] In the 1st portable telephone 51, the selection information which received selection information and received on the display 25 is displayed (step 142). The user of the 1st portable telephone 51 refers to the song-selection information displayed on the display 25, in order to receive distribution in order to carry out self-possession, song selection and, or to transfer the music data which ask for distribution to a third person by the duplicate of music data, it carries out [whether popularity is won in distribution only of a transfer distribution code with the right of transfer or popularity is won in distribution of both these, and] as the distribution purpose, and it inputs through a key 24 (step 143). A controller 20 receives the input from a key 24, and said song selection and the distribution purpose are transmitted to the distribution server 68 (step 144).

[0130] In the distribution server 68, said song selection and distribution purpose are received (step 243), and the distribution purpose is checked (step 244). In distribution (transfer Only) of only the right of transfer for a third person, it progresses to step 255. When receiving distribution of the music data containing encryption music data (music data *****), it progresses to step 245.

[0131] When music data distribute, the additional information 74 and the encryption music data 75 which were obtained from the delivery information database 61 are transmitted (step 245). Then, proper ID(1) 71 relevant to said telephone number "090-*****-xxx1" are generated. The contents key which reproduces the music data directed by said song selection from the encryption music data 75 is obtained from the delivery information database 61. Said generated proper ID (1) By 71, encryption contents key (1) 72 which can decode said contents key are generated, and (step 246) and said encryption contents key (1) 72 are transmitted (step 247). Then, when the distribution purpose is checked again (step 248) and the user of the 1st portable

telephone 51 aims [the distribution purpose] at self-possession (transfer No), it progresses to step 249 and generation (step 249) and transfer distribution code (0) 78 are transmitted [a transfer distribution code without the right of transfer] for transfer distribution code (0) 78 (step 250).

[0132] When the distribution purpose includes transfer for a third person (i.e., when the distribution purpose is judged to be Transfer Only at step 244), or when it is judged at step 248 that the right of transfer needs to be distributed (transfer Yes), the transfer management database 62 is accessed and transfer distribution code (1) 73 which are newly Control Code which can be registered are generated to the transfer distribution database 62 (step 255). Then, the transfer management database 62 based on transfer distribution code (1) 73 is updated (step 256). Termination of renewal of the transfer management database 62 transmits transfer distribution code (1) 73 (step 250).

[0133] In the 1st portable telephone 51, when receiving distribution of music data, it is judged that distribution of music data is included in the distribution purpose at step 145 (music data *****), and it progresses to step 126. Through an antenna 21, it takes out as data in the transceiver section 22, and sequential record of additional information 74 and the encryption music data 75 is carried out at the memory 42 in a memory card 50 (step 146). Then, encryption contents key (1) 72 and transfer distribution code (1) 73 are received (step 147). After reception of all data is completed, distribution acceptance is transmitted in order to notify reception termination of distribution data to the distribution server 68 (step 148). A circuit with the distribution server 68 is cut after transmission of distribution acceptance, (step 149) encryption contents key (1) 72 and transfer distribution code (1) 73 are recorded on the memory 42 in a memory card 50 (step 150), and purchase processing is ended (step 151). Consequently, when a purchaser aims only at self-possession, a transfer distribution code receives transfer distribution code (0) 78 without the right of transfer, and when a purchaser receives the right of transfer in coincidence at the condition of A of drawing 21 , it will be in the condition of drawing 21 R>1B.

[0134] Moreover, when purchasing only the right of transfer, just before accessing the distribution server 68, it is in the condition of A of drawing 21 , and transfer distribution code (0) 78, encryption contents key (1) 72, the additional information 74, and the encryption music data 75 without the right of transfer are already recorded on memory 42. Therefore, the distribution purpose is judged to be the purchase of only the right of transfer at step 145, and it progresses to step 152. Distribution of transfer distribution code (1) 73 with the right of transfer is received from the distribution server 68, and transfer distribution code (1) 73 are received (step 152). Transfer distribution code (1) Distribution acceptance is transmitted in order to notify reception of 73 to the distribution server 68 (step 153). A circuit with the distribution server 68 is cut after transmission of distribution acceptance (step 154), transfer distribution code (0) 78 currently recorded on memory 42 are rewritten to transfer distribution code (1) 73 which received (step 155), and purchase processing is ended (step 150). It will be in the condition of B from the condition of A of drawing 21 .

[0135] In the distribution server 68, distribution acceptance is received (step 251), it judges that the purchase processing in the 1st portable telephone 51 was completed by reception of distribution acceptance, and a circuit with the 1st portable telephone 51 is cut (step 252). Subsequently, in order to perform accounting to distribution, the accounting database 63 is updated (step 253), and message distribution processing is ended (step 254).

[0136] Since it is the processing same about regeneration of the music data by the owner, regeneration of the music data based on borrowing, and regeneration of the transferred music data as the 1st example, explanation is omitted.

[0137] Subsequently, the example of this invention is explained [5th]. Drawing 22 is the conceptual diagram of the information distribution system which distributes another music data concerning this invention.

[0138] The distribution server 69 is a distribution server which offers transfer of the music data accompanying transfer of the memory card of the music data in this example, and transfer by the duplicate. The portable telephone with which the 1st portable telephone 51 receives distribution of music data, the portable telephone with which the 2nd portable telephone 53

receives transfer of the music data accompanying transfer of a memory card 50, and the 3rd portable telephone 56 are portable telephones which receive transfer by the duplicate of music data. The memory card and memory card 55 which recorded the music data with which the memory card 50 was distributed are a memory card which receives transfer by the duplicate. Among drawing, the same number is attached about the same component as the 1st example, and explanation is omitted. Furthermore, the distribution server 69 can realize transfer processing in the distribution server 68 for purchase processing of music data [in / at drawing 4 / in the 1st portable telephone 51 and 3rd portable telephone 56 / a portable telephone] with the flow chart of drawing 8 with the flow chart of drawing 19 at drawing 2 . The flow chart of the message distribution processing in the distribution server 69 and the regeneration in a portable telephone is shown in drawing 23 and drawing 24 , respectively.

[0139] It is the system which adopted both transfer of the music data based on transfer of the memory card 50 in the 1st example, and transfer of the music data based on the duplicate of music data to the memory card 55 in the 4th example. It is the configuration which classified the selections for the purpose of distribution into transfer (memory card transfer) of the music data based on transfer of memory card, and transfer (duplicate transfer) of the music data based on the duplicate of music data, and increased the item for the purpose of [in music data purchase processing] distribution. Moreover, in regeneration of the transferred music data, a transfer means can be judged from the relation of the Proper ID and the encryption contents key which were recorded on the memory 42 in a memory card 50 (step 166).

[0140] Since the transfer of the transfer by the duplicate of the 1st example and the music data to other memory cards 55 of the music data based on transfer of a memory card 50 is the same as that of the 4th example, explanation is omitted.

[0141] Although the complex system of the medium transfer which is the 1st example as the 5th example, and the duplicate transfer which is the 4th example was described, the complex system of the memory card transfer which is the 2nd example, and the duplicate transfer which is the 4th example can also be built easily.

[0142] When two or more music data are recorded on the memory car like drawing 25 as a proper ID, for every music data The encryption contents keys 92A and 92B, 92 Ns, the transfer distribution codes 93A and 93B, 93 Ns, additional information 94A and 94B, 94 Ns, the encryption music data 95A and 95B, Even if it constitutes so that 95 Ns may be made into a lot, respectively, it may record as music data and it may record beforehand at the time of common proper ID91 memory-card initialization etc., Proper ID is generated for every music data like drawing 26 . Proper 91A and ID 91B Each music data and lot may be carried out and and 91 Ns may be recorded.

[0143] Furthermore, when the 2nd portable telephone 53 or 3rd portable telephone 56 which received transfer accesses either of the distribution servers 60, 68, and 69 Record initial entries, such as the telephone number which accesses either of each distribution server 60, 68, and 69, on additional information 74, and the music data which received transfer are dialed to the automatic target reincarnated for the first time. Although it explained that distribution of encryption contents key (3) 81 was received in encryption contents key (2) 77 and the 3rd portable telephone 56 in the 2nd portable telephone 53 You may access because a user operates a portable telephone based on the initial entry recorded on additional information 74.

[0144] Although it explained that it charged to the user of the 1st portable telephone 51 in the 4th and 5th examples when distribution of a transfer distribution code with the right of transfer by the duplicate was received When encryption contents key (3) 81 are distributed to the 3rd portable telephone 56 which received transfer, even if it makes it charge to the user of the 1st portable telephone 51 Moreover, when both distribution is performed, you may make it charge at the rate of a constant ratio to the user of the 1st portable telephone 51.

[0145] In the 4th and 5th examples, furthermore, the music data recorded on the memory card 50 of the 1st portable telephone 51 Although it explained that transfer distribution code (1) 73 with the right of transfer recorded on the memory card 50 of the 1st portable telephone 51 were rewritten to transfer distribution code (0) 78 without the right of transfer when it reproduced to the memory card 55 of the 3rd portable telephone 56 It is at the distribution server 68 or the

transfer management database 62 of 69, and since transfer is managed, even if it does not rewrite, the information distribution system in this example is materialized.

[0146] Furthermore, in the 4th and 5th examples, although it explained that the transfer distribution code which can perform transfer by the duplicate to one person was distributed, also when distributing the transfer distribution code which can perform transfer by the duplicate to two or more men, it is not an exception. It is easily extensible if the stepping function to manage the number of grantors to the transfer flag currently recorded on the distribution server 68 or the transfer management database 62 of 69 is given. Furthermore, the stepping function to manage the number of grantors in a part of transfer distribution code distributed to a portable telephone can also be given.

[0147] Furthermore, the explanation about transmission and reception of Proper ID was omitted as what Proper ID is automatically sent from a cellular-phone network in either of the distribution servers 60, 68, and 69 at the time of communication line connection, and recognizes the proper ID related to the telephone number automatically. You may make it transmit Proper ID from the 1st portable telephone 51 to a distribution server after a line connection.

[0148] Furthermore, it is not an exception altogether whether Proper ID is generated in a distribution server and Proper ID is generated by both the portable telephone, and distribution both [either or] by making it distribute to a portable telephone, if only treatment [not a problem but a portable telephone, and a distribution server / the same proper ID based on the telephone number of a pocket talk machine].

[0149] Furthermore, although it explained that processing concerning distribution and transfer of music data was performed using the same server, the configuration divided into two or more servers as the distribution server was called the data distribution server aiming at distribution of music data and transfer server aiming at distribution of the encryption contents key by transfer is also considered. It is not an exception no matter it may be what configuration, if it is the distribution server which can distribute the encryption contents key at the time of transfer for the transfer management database 62 as a common database at least here.

[0150] Furthermore, although the data which a distribution server distributes were explained as music data, especially as long as it is the data configuration equipped with the encryption data which can be decoded by the encryption contents key which can be decoded, and the decoded contents key by using the proper ID related to the telephone number of a portable telephone as a key, it may not limit to music data, and you may be what kind of information, such as alphabetic data, voice data, map data, and image data.

[0151] Moreover, although this example explained Proper ID as information set up based on the telephone number, it may not restrict to this example and Proper ID may be set up based on the unique management information for identifying memory card, and the unique management information for identifying equipment.

[0152] Moreover, in this example, although explained using a memory card as a record medium, the record medium which does not restrict to this example and is constituted by magnetic-recording media, such as magneto-optic-recording media, such as a magneto-optic disk, and a hard disk, may be used.

[Translation done.]

* NOTICES *

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing the concept of the information distribution system of this invention.

[Drawing 2] It is the block diagram showing one example of the distribution server in this invention.

[Drawing 3] It is drawing showing the data configuration in the memory in this invention.

[Drawing 4] It is the block diagram showing one example of the portable telephone in this invention.

[Drawing 5] It is the flow chart of the portable telephone about the data purchase in this invention.

[Drawing 6] It is the flow chart of the distribution server about the data distribution in this invention.

[Drawing 7] It is the flow chart of the portable telephone about the data playback in this invention.

[Drawing 8] It is the flow chart of the distribution server about the data transfer in this invention.

[Drawing 9] It is drawing showing changes of the data in the memory card in this invention.

[Drawing 10] It is drawing showing the example of a configuration of the transfer management database in this invention.

[Drawing 11] It is drawing showing changes of the data in the memory card in the 2nd example of this invention.

[Drawing 12] It is the block diagram showing one example of the portable telephone in the 2nd example in this invention.

[Drawing 13] It is the flow chart of the portable telephone about the data playback in the 2nd example of this invention.

[Drawing 14] It is drawing showing the example of a configuration of the transfer management database in the 3rd example of this invention.

[Drawing 15] It is the flow chart of the portable telephone about the data purchase in the 3rd example of this invention.

[Drawing 16] It is the flow chart of the distribution server about the data distribution in the 3rd example of this invention.

[Drawing 17] It is the flow chart of the distribution server about the data transfer in the 3rd example of this invention.

[Drawing 18] It is drawing showing the concept of the information distribution system in another transfer gestalt of this invention.

[Drawing 19] It is the flow chart of the portable telephone about the data purchase in the 4th example of this invention.

[Drawing 20] It is the flow chart of the distribution server about the data distribution in the 4th example of this invention.

[Drawing 21] It is drawing showing changes of the data in the memory card in the 4th example of this invention.

[Drawing 22] It is drawing showing the concept of the information distribution system in another transfer gestalt of this invention.

[Drawing 23] It is the flow chart of the distribution server about the data distribution in the 5th example of this invention.

[Drawing 24] It is the flow chart of the portable telephone about the data playback in the 5th example of this invention.

[Drawing 25] It is drawing showing the data configuration in the memory in this invention.

[Drawing 26] It is drawing showing another data configuration in the memory in this invention.

[Description of Notations]

26 ... Data decode section

42 ... Memory

43 ... Contents key decode section

44 ... Proper ID generation section

45 ... Proper ID judging section

50 ... Memory card

51 ... Portable telephone

53 ... Portable telephone

55 ... Memory card

56 ... Portable telephone

60 ... Distribution server

61 ... Delivery information database

62 ... Transfer management database

63 ... Accounting database

71 ... Proper ID (1)

72 ... Encryption contents key (1)

73 ... Transfer distribution code (1)

74 ... Additional information

75 ... Encryption music data

78 ... Transfer distribution code (0)

[Translation done.]